WHAT IS CLAIMED IS:

An audio and video reproduction apparatus comprising:

a head mounted display for converting a video signal into an image to present to a listener/watcher;

a pair of acoustic transducers each used for converting an audio signal into a sound to present to said listener/watcher;

detection means for detecting an orientation of the head of said listener/watcher;

image-changing means for changing said video signal supplied to said head mounted display in accordance with an orientation of the head of the listener/watcher; and

sound-image localization processing means for changing an sound-image localized position of an audio signal reproduced by said acoustic transducers, in accordance with an orientation of the head of said listener/watcher.

- 2. An audio and video reproduction apparatus according to claim 1 wherein said pair of the acoustic transducers are headphones mounted on the head of said listener/watcher or a pair of earphones attached to the ears of said listener/watcher.
 - 3. An audio and video reproduction apparatus

according to claim 1 wherein said pair of the acoustic transducers are speakers provided at positions close to the ears of said listener/watcher.

- 4. An audio and video reproduction apparatus according to claim 1 wherein said detection means comprises a sensor mounted on the head of said listener/watcher and a conversion unit for converting a detection signal generated by said sensor into a signal representing the orientation of the head of said listener/watcher.
- 5. An audio and video reproduction apparatus according to claim 1 wherein said image-changing means is a cut-out circuit for extracting a video signal representing an image stretched over a visual-field range visible to said listener/watcher by means of said head mounted display from a video signal representing an image stretched over a range wider than said visual-field range in accordance with an orientation of the head of said listener/watcher.
- 6. An audio and video reproduction apparatus according to claim 1 wherein said image-changing means is a cut-out circuit for extracting a video signal representing an image stretched over a visual-field range of said listener/watcher from a video signal representing

an image stretched over a 360-degree range surrounding said listener/watcher in accordance with an orientation of the head of said listener/watcher.

- 7. An audio and video reproduction apparatus according to claim 1 wherein said image-changing means is a video synthesis circuit for synthesizing video signals representing images stretched over a visual-field range visible to said listener/watcher by means of said head mounted display in accordance with an orientation of the head of said listener/watcher.
- 8. An audio and video reproduction apparatus according to claim 1 wherein said sound-image localization processing means carries out sound-image localization processing based on transfer functions from a sound-image localized position of said audio signal to the ears of said listener/watcher to produce said audio signal, which is supplied to said pair of the acoustic transducers as if said audio signal were localized at said sound image localized position.
- 9. An audio and video reproduction apparatus according to claim 1 wherein said sound-image localization processing means converts an audio signal representing a sound covering a 360-degree range surrounding said listener/watcher into an audio signal,

which is supplied to said pair of the acoustic transducers as a reproduction signal as if said reproduced sound image were localized outside the head of the listener/watcher.

- 10. An audio and video reproduction apparatus according to claim 1 wherein said video signal supplied to said head mounted display and said audio signals supplied to said acoustic transducers are reproduced from a recording medium.
- 11. An audio and video reproduction apparatus according to claim 1 wherein said video signal supplied to said head mounted display and said audio signals supplied to said acoustic transducers are received from a network in a real-time manner.